Nonlocality and the Kochen-Specker Paradox

Transparencies

[1a 3 views of observables not in an eigenstate]

13 Kochen-Specker result (+ FUNC):
⇒ Proof of Contradiction 12 – 17a (5 transparencies)

13a FUNC. Contd; Decoherentization – FUNC

13b Proof of FUNC

14 Definition of $[A_B]^\phi$ & $\{A_B\}^\phi(c)$.

14a Locality Preconcepts: dLUC

14c ELUC

16 Bedhead-Heywood Result.

Free$^\alpha$ + UR + ELUC + dLUC ⇒ Contradiction

14g Definition of $\overline{[\mathcal{O}_{\otimes I}]^\phi_{\{A,B\}}}(D,E)$

15 dLUC, ELUC in Symbols

17 CVR

18 CVR for Separated Systems

19 Incompatibility of CVR and Locality

19a/b Proof: Conf. and Principle of Local Operations and Classical Communication (PLOCC)**

20 Interaction of Physics and Philosophy.